UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

SUBJECT:	Dimock Home Well Data – Part 2 Revised to include citation for data source	12 Jan 2012 Revised 31 Jan 2012
FROM:	Dawn A. Ioven, Toxicologist Technical Support Branch (3HS41)	
TO:	Richard Fetzer, OSC Eastern Response Branch (3HS31)	

From a toxicological perspective, I reviewed the Dimock well data provided for Residents 9 through 18.* Conclusions of significance are presented below:

General Comment

The detection limit for ethylene glycol in the analyzed samples was very high (10,000 ug/L). This detection limit is higher than the risk-based screening value suggested by ATSDR for the protection of children (8000 ug/L). As a consequence, a determination about whether ethylene glycol poses a potential risk in these wells cannot be made; for this, additional sampling with lower detection limits would be necessary.

Resident 13 Ex. 6 - Personal Privacy

Arsenic was detected at a concentration of 25 ug/L. This level exceeds the risk-based trigger (set at an excess cancer risk of 1E-04) for arsenic (4.5 ug/L), as well as the MCL (10 ug/L). The elevated cancer risk associated with long-term consumption of this water would be roughly 6E-04, which represents an imminent and substantial threat. Note, however, that the owners of this property appear to be residing in Florida, so it's not clear if anyone is actually drinking the water at this time.

Resident 15 (Ex. 6 - Personal Privacy

Arsenic (6 ug/L) was reported in slight excess of its risk-based trigger (4.5 ug/L), but less than the MCL (10 ug/L). Considering that this is a close call in terms of risk and also that the MCL has not been exceeded, resampling this well to achieve a better understanding of actual sustained conditions is suggested.

If you have any questions about these comments, please let me know.

*The data summary evaluated for this assessment was provided by OSC DiDonato on 11 Jan 2012, in a file entitled, *Summary of Residents without water_residents9_18.docx*. The source of the data is attributed to the Cabot CO&A.